

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

- 1-4. (Cancelled)
5. (Currently Amended) A temperature control device comprising:
a plurality of compartments holding microorganisms or cells;
a heater and a cooling unit making control of temperatures inside said compartments;
a thermometer measuring an ambient air temperature of an environment in which the device is installed;
a storage unit storing calibration data; and
a control unit setting a target value for said temperatures inside said compartments, and controlling said heater and said cooling unit with a second target value that is obtained based on said target value and said calibration data in accordance with said ambient air temperature such that control of temperatures inside said compartments is corrected by using said ambient air temperature measured by said thermometer,
a relationship between said target value and said temperature inside said compartments being employed as said calibration data.
6. (Previously Presented) The temperature control device according to claim 5, wherein said heater comprises:
a first heater line and a second heater line;
a plurality of first thermal conductors provided for said first heater line; and
a plurality of second thermal conductors provided for said second heater line.
7. (Previously Presented) The temperature control device according to claim 5, wherein said heater comprises:
a first heater line and a second heater line;
a plurality of first thermal conductors provided for said first heater line; and
a plurality of second thermal conductors provided for said second heater line,

wherein said first thermal conductor and said second thermal conductor are controlled to different temperatures from each other.

8. (Previously Presented) The temperature control device according to claim 5, wherein said heater comprises:

- a first heater line and a second heater line;
- a plurality of first thermal conductors provided for said first heater line;
- a plurality of second thermal conductors provided for said second heater line;
- a first thermometer provided for one of said first thermal conductors; and
- a second thermometer provided for one of said second thermal conductors,

said first thermal conductors being equal in thermal capacity,
said second thermal conductors being equal in thermal capacity, and
said first thermal conductors and said second thermal conductors being different from each other in thermal capacity.

9. (Currently Amended) A temperature control device comprising:
a plurality of compartments holding microorganisms or cells;
a heater and a cooling unit making control of temperatures inside said compartments;
a thermometer measuring an ambient air temperature of an environment in which the device is installed;

a control unit setting a target value for said temperatures inside said compartments;
and

a calculation unit, wherein
said calculation unit calculates a second target value based on said target value and calibration data in accordance with said ambient air temperature,

said control unit controls said heater and said cooling unit with said second target value such that control of temperatures inside said compartments is corrected by using said ambient air temperature measured by said thermometer, and

a relationship between said target value and said temperature inside said compartments being employed as said calibration data.

10. (Previously Presented) The temperature control device according to claim 9, wherein said heater comprises:

- a first heater line and a second heater line;
- a plurality of first thermal conductors provided for said first heater line; and
- a plurality of second thermal conductors provided for said second heater line.

11. (Previously Presented) The temperature control device according to claim 9, wherein said heater comprises:

- a first heater line and a second heater line;
 - a plurality of first thermal conductors provided for said first heater line; and
 - a plurality of second thermal conductors provided for said second heater line,
- wherein said first thermal conductor and said second thermal conductor are controlled to different temperatures from each other.

12. (Previously Presented) The temperature control device according to claim 9, wherein said heater comprises:

- a first heater line and a second heater line
 - a plurality of first thermal conductors provided for said first heater line;
 - a plurality of second thermal conductors provided for said second heater line;
 - a first thermometer provided for one of said first thermal conductors; and
 - a second thermometer provided for one of said second thermal conductors,
- said first thermal conductors being equal in thermal capacity,
said second thermal conductors being equal in thermal capacity, and
said first thermal conductors and said second thermal conductors being different from each other in thermal capacity.

13. (Previously Presented) The temperature control device according to claim 12, wherein

said second heater line is provided on an outer edge side of said heater than said first heater line is,

each of said first thermal conductors includes a pair of heat blocks provided on both sides of said first heater line, and

each of said second thermal conductors includes one heat block provided for said second heater line on the side of said first heater line.

14. (Previously Presented) The temperature control device according to any one of claims 5 to 13, further comprising:

a sensor for each of said compartments, said sensor measuring a measurement value that varies depending on metabolism of said microorganisms or cells.

15. (Currently Amended) A temperature control device comprising:
a plurality of compartments holding microorganisms or cells;
a heater and a cooling unit making control of temperatures inside said compartments;
a thermometer measuring an ambient air temperature of an environment in which the device is installed;

a storage unit storing calibration data;
a control unit setting a target value for said temperatures inside said compartments, and controlling said heater and said cooling unit with a second target value that is obtained based on a relationship among said target value, said calibration data and said ambient air temperature such that control of temperatures inside said compartments is corrected by using said ambient air temperature measured by said thermometer.

16. (Currently Amended) A temperature control device comprising:
a plurality of compartments holding microorganisms or cells;
a heater and a cooling unit making control of temperatures inside said compartments;
a thermometer measuring an ambient air temperature of an environment in which the device is installed;

a control unit setting a target value for said temperatures inside said compartments;
and

a calculation unit, wherein
said calculation unit calculates a second target value based on a relationship among said target value, calibration data and said ambient air temperature, and

said control unit controls said heater and said cooling unit with said second target value such that control of temperatures inside said compartments is corrected by using said ambient air temperature measured by said thermometer.